

Material Safety Data Sheet

Calumet 400-500 Solvent

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Calumet Lubricants Company  
2780 Waterfront Pkwy E. Suite 200  
Indianapolis, IN 46214

COMPANY CONTACT: Jennifer Hall  
TELEPHONE NUMBER: (318)949-2421

EMERGENCY TELEPHONE NUMBERS

Calumet (318)949-2421 Normal Business Hrs.  
Chemtrec (800)424-9300 After Business Hrs.

PRODUCT NAME: Calumet 400-500 Solvent  
PRODUCT CODE: 0505-00  
CHEMICAL NAME: Straight Run Kerosine  
CAS NUMBER: 8008-20-6  
CHEMICAL FAMILY: Petroleum Hydrocarbon Distillate  
CHEMICAL FORMULA: C10-C17

KEROSENE

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	EXPOSURE LIMITS	CONCENTRATION PERCENT BY VOLUME
Straight Run Kerosine CAS NUMBER: 8008-20-6	Petroleum Distillate(Naphtha) TWA-400ppm	100.0

3. HAZARDS IDENTIFICATION

\*\*\*\*\* EMERGENCY OVERVIEW \*\*\*\*\*  
\* WARNING: Combustible Liquid and Vapor. Harmful if inhaled and may cause  
\* delayed lung injury. Can cause nervous system depression. Aspiration  
\* hazard if swallowed - can enter lungs and cause damage. Keep away from  
\* heat, sparks, and flame. Avoid breathing vapor. Use ventilation  
\* adequate to keep vapor below recommended exposure limits. Avoid contact  
\* with eyes, skin and clothing. Wash thoroughly after handling.  
\*\*\*\*\*

POTENTIAL HEALTH EFFECTS

PRIMARY ROUTE(S) OF ENTRY

Skin.

EYES

Tests on similar materials suggest acute irritation.

SKIN

Tests on similar materials indicate acute irritation upon short-term exposure and chronic dermatitis on prolonged contact.

INGESTION

Acute aspiration hazard. Tests on similar materials indicate possibility of the following symptoms: headache, nausea, drowsiness, fatigue, pneumonitis, pulmonary adema, central nervous system depression, convulsions, and loss of consciousness.

INHALATION

Tests on similar materials indicate the possibility of the following symptoms: headache, nasal and respiratory irritation, nausea, drowsiness, breathlessness, fatigue, central nervous system depression, convulsions, and loss of consciousness.

CHRONIC (CANCER INFORMATION)

Prolonged and/or repeated contact with this material may produce skin and eye irritation.

Carcinogen listed by : National Toxicology Program (NO)

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## 3. HAZARDS IDENTIFICATION - Continued

### CHRONIC (CANCER INFORMATION) - Continued

I. A. R. C. (NO)

OSHA (NO)

ACGIH (NO)

This product does not require a cancer hazard warning in accordance with the OSHA Hazard Communication Standard.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Personnel with pre-existing skin disorders should avoid contact with this product.

## 4. FIRST AID MEASURES

### EYES

Flush eyes immediately with water a minimum of 15 minutes occasionally lifting lower and upper lids. Get medical attention promptly.

### SKIN

Wash skin thoroughly with soap and water. Immediately remove contaminated clothing and laundry before reuse. If irritation or rash develops, obtain medical assistance.

### INGESTION

Call a physician immediately. Do not induce vomiting except at the instruction of a physician. Never give anything by mouth to an unconscious person.

### INHALATION

Remove patient to fresh air and consult a physician. If breathing is difficult, give oxygen. If not breathing give artificial respiration.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

FLASH POINT: >160°F >71°C Tag Closed Cup

AUTOIGNITION: >600°F >315°C

FLAMMABILITY CLASS: IIIA

LOWER EXPLOSIVE LIMIT (%): 0.7 vol % (estimated)

UPPER EXPLOSIVE LIMIT (%): 6 vol % (estimated)

### FIRE AND EXPLOSION HAZARDS

Can form flammable mixtures with air and flash at room temperature. Explosion hazard in fire situation. Vapor heavier than air and may travel considerable distance to a source of ignition and flash back.

### EXTINGUISHING MEDIA

Dry Chemical, carbon dioxide, and foam. CAUTION: Water stream may spread fire.

### FIRE FIGHTING INSTRUCTIONS

Use water spray only to cool containers exposed to flames. Do not enter enclosed or a confined work space without proper protective equipment. Fire fighting personnel should wear respiratory protection (positive pressure if available). If leak or spill has not ignited, use water spray to disperse the vapors.

Products of combustion include fumes, smoke and carbon monoxide.

## 6. ACCIDENTAL RELEASE MEASURES

Notify emergency response personnel. Evacuate area and remove ignition sources. Build dike to contain flow. Remove free liquid. Shut off ignition source. Contain spill and keep from entering waterways or sewers. Use personal protective equipment. Advise EPA; state agency if required. Absorb

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## 6. ACCIDENTAL RELEASE MEASURES - Continued

on inert material. Shovel, sweep or vacuum spill and place in closed container for disposal.

## 7. HANDLING AND STORAGE

### HANDLING AND STORAGE PRECAUTIONS

Store as OSHA Class IIIA combustible liquid. Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty oil containers can contain explosive vapors. Wash thoroughly after handling. Do not store with strong oxidizers.

### WORK/HYGIENIC PRACTICES

Wash hands with soap and water before eating, drinking, smoking or use of toilet facilities. Take a shower after work if general contact occurs. Remove oil-soaked clothing and launder before reuse. Launder or discard contaminated shoes and leather gloves.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### ENGINEERING CONTROLS

Use adequate ventilation to keep oil mists of this material below applicable standard(s). See Section on occupational exposure limits.

### EYE/FACE PROTECTION

Safety glasses, splash goggles, or face shield as appropriate. Have suitable eye water wash available.

### SKIN PROTECTION

Avoid prolonged and/or repeated skin contact. If prolonged contact cannot be avoided, wear protective impervious gloves and clothing. Acceptable materials for gloves are neoprene; nitrile; viton.

### RESPIRATORY PROTECTION

Up to 4000 ppm, half mask organic vapor respirator. Up to 20,000 ppm, full face organic vapor respirator or full face supplied air respirator. Greater than 20,000 ppm, fire fighting, or unknown concentration, self contained breathing apparatus with positive pressure.

### OTHER/GENERAL PROTECTION

If there is a likelihood of splashing, an oil resistant clothing should be worn. Never wear oil soaked clothing. Launder or dry clean before wearing. Discard oil soaked shoes. Affix warning labels on containers in accordance with 29 CFR 1910.1200 (Hazard Communication Standard).

Maintain local or dilution ventilation to keep air concentration below 400 ppm. Loading, unloading, tank gauging, etc., remain upwind. Request assistance of safety and industrial hygiene personnel to determine air concentrations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE

Clear liquid.

### ODOR

Kerosine.

### ODOR THRESHOLD

N.D.

### BASIC PHYSICAL PROPERTIES

PHYSICAL STATE: Liquid

BOILING POINT: IBP >400°F IBP >204°C

MELTING POINT: N/A°F N/A°C

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## 9. PHYSICAL AND CHEMICAL PROPERTIES - Continued

VAPOR PRESSURE: Reid @ 100F: 0.1 pou  
VAPOR DENSITY (AIR=1): 6 (air = 1)  
SPECIFIC GRAVITY: 0.79 Water = 1  
MOLECULAR WEIGHT: 180.00  
PACKING DENSITY: N/A  
SOLUBILITY (H2O): negligible in water  
PERCENT VOLATILES: 100  
EVAPORATION RATE: 7 times slower than ethyl ether  
PH: essentially neutral  
VISCOSITY: 1.7 cst @ 40°C

Physical data may vary slightly to meet specifications.

## 10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions

### CONDITIONS TO AVOID (STABILITY)

Sources of ignition.

### INCOMPATIBLE MATERIALS

Strong oxidizers.

### HAZARDOUS DECOMPOSITION PRODUCTS

Incomplete combustion may produce carbon monoxide and other asphyxiants.

HAZARDOUS POLYMERIZATION: will not occur

## 11. TOXICOLOGICAL INFORMATION

### ACUTE STUDIES

#### EYE EFFECTS

Irritation on contact.

#### SKIN EFFECTS

May cause irritation or dermatitis with prolonged and repeated contact.

#### ACUTE ORAL EFFECTS

Tests on similar materials indicate an order of acute oral toxicity.

#### ACUTE INHALATION EFFECTS

Acute toxicity expected on inhalation.

This product is not listed as carcinogenic or a potential carcinogen by the National Toxicology Program, by the I.A.R.C. monographs or by OSHA.

## 12. ECOLOGICAL INFORMATION

NO DATA GIVEN

## 13. DISPOSAL CONSIDERATIONS

Follow federal, state and local regulations. If "used", RCRA criteria must be determined. Do not flush to drain/storm sewer. Contract to authorized disposal service. If permitted incineration may be practical. Recommend recycling.

## 14. TRANSPORT INFORMATION

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## 14. TRANSPORT INFORMATION - Continued

PROPER SHIPPING NAME: Combustible Liquid, nos, Petroleum Naphtha Solvent,  
NA 1993, PG III

HAZARD CLASS: Combustible Liquid  
DOT IDENTIFICATION NUMBER: NA1993  
DOT SHIPPING LABEL: not required

## 15. REGULATORY INFORMATION

U.S. FEDERAL REGULATORY INFORMATION :  
SARA 302 Threshold Planning Quantity: NOT APPLICABLE  
SARA 304 Reportable Quantity : NOT APPLICABLE  
SARA 311 Categories: Immediate (Acute) Health Effects -- Y  
Delayed (Chronic) Health Effects -- N  
Fire Hazard -- Y  
Sudden Release of Pressure Hazard -- N  
Reactivity Hazard -- N

EPA/TSCA Inventory: The components of this product are listed on the EPA/TSCA inventory of chemicals.

EPA Hazard Classification Code: NOT APPLICABLE

Comprehensive Environmental Response, Compensation and Liability Act  
(CERCLA):

No chemicals in this product are subject to the reporting requirements of CERCLA

### SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION

The following chemicals are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and reauthorization Act of 1986 and 40 CFR Part 372:

1,2,4-Trimethylbenzene	CAS # 95-63-6	Up to 0.2 Weight %
Naphthalene	CAS # 91-20-3	Up to 2.0 Weight %

## 16. OTHER INFORMATION

NFPA HAZARD RATING - HEALTH: 1 Slight  
- FIRE: 2 Moderate  
- REACTIVITY: 0 Negligible

PREPARED BY: Jennifer Hall  
SUPERCEDES MSDS DATED: 05/23/96

PHONE: (318) 949-2421

Revised:

1. Chemical Product and Company Identification

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